(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



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(43) International Publication Date 18 March 2004 (18.03.2004)

PCT

(10) International Publication Number WO 2004/022613 A1

(51) International Patent Classification⁷: 4/64

C08F 210/02,

(21) International Application Number:

PCT/EP2003/009183

- (22) International Filing Date: 19 August 2003 (19.08.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 02078739.6

6 September 2002 (06.09.2002) E

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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR THE COPOLYMERIZATION OF ETHYLENE



(T)



(II)



(III)

(57) Abstract: A process for producing a polymer of ethylene containing from 0.1 to 99 % by mol of one or more derived units of alpha-olefins and optionally from 0 to 5% by mol polyene, comprising contacting, under polymerization conditions, ethylene, one or more alphaolefins and optionally said polyene, in the presence of a catalyst system obtainable by contacting: a) a metallocene compound of formula (I): wherein M is zirconium, hafnium or titanium; X, is a hydrogen atom, a halogen atom, or a hydrocarbon group; R¹ is a hydrocarbon group; R², R³, R⁴ and R⁵, equal to or different from each other, are hydrogen atoms, or hydrocarbon groups; R⁶ is a hydrocarbon group; L is a divalent bridging group, and T is a divalent radical of formula (II) or (III): wherein R⁸ and R⁹ are hydrogen or hydrocarbon groups; and b) an alumoxane or a compound capable of forming an alkyl metallocene cation.

